

**FIREFIGHTING CLOTHING – FIRE DEPARTMENT COATS, PANTS, GLOVES, HELMETS,
HOODS, AND SUSPENDERS**

NOTE: THIS SPECIFICATION AND ANY ACCOMPANYING SPECIFICATION OR BID CAN BE APPEALED.

YOUR BID SPECIFICATION APPEAL MUST BE SUBMITTED IN WRITING TO THE CITY PURCHASING DIRECTOR FOR ALL BIDS NO LATER THAN FIVE (5) WORKING DAYS PRIOR TO BID OPENING.

YOUR APPEAL MUST NOT ONLY IDENTIFY THE PROVISION, TERM OR CONDITION THAT IS CAUSING PROBLEMS, BUT ALSO YOUR PROPOSED ALTERNATE PROVISION, TERM OR CONDITION AND BE SUPPORTED BY TECHNICAL DATA, TEST RESULTS AND OTHER INFORMATION.

CONTACT THE APPROPRIATE PURCHASING AGENT OR THE PROCUREMENT SPECIALIST FOR THE APPEAL FEE AMOUNT AND APPEAL FILING INSTRUCTIONS.

APPEALS RECEIVED LATER THAN FIVE (5) WORKING DAYS PRIOR TO BID OPENING OR WITHOUT SUFFICIENT DETAILS WILL NOT BE CONSIDERED.

NOTICE!

A APPEAL FEE THAT IS 1% OF THE ESTIMATED DOLLAR AMOUNT OF THIS CONTRACT IS REQUIRED WITH A BID SPECIFICATION APPEAL.
THIS FEE IS A PREREQUISITE FOR PURSUING THE APPEAL AND MUST ACCOMPANY THE APPEAL. THE APPEAL FEE WILL BE RETURNED IF THE APPEAL IS UPHELD.

CAUTION: A BID THAT DOES NOT FULLY COMPLY WITH ALL OF THE PROVISIONS, TERMS, AND CONDITIONS OF THIS OR ANY ACCOMPANYING SPECIFICATION AND BID, MAY BE DETERMINED AS A COUNTEROFFER AND MAY RESULT IN THE BID BEING REJECTED FOR NON-RESPONSIVENESS.

I GENERAL: It is the intent of this specification to describe the minimum requirements for firefighting clothing to be purchased by the City of Milwaukee for the Fire Department personnel. All items, details of construction, services or features not specifically mentioned which are regularly furnished to provide satisfactory items for the service intended shall be furnished by the successful bidder at the bid price, and shall conform in strength, quality of material and workmanship to that usually provided by the practice indicated in this specification.

II AWARD AUTHORITY:

- A. The DOA, Business Operations Division, Procurement Services Section will be the sole judge of the quality and suitability of the equipment, materials and/or services offered in its determination of the successful bidder.

III WARRANTY:

- A. The seller and/or manufacturer of the coats, pants, suspenders, gloves, and helmets warrants the goods sold hereunder will be of merchantable quality, will conform to current National Fire Protection Association (NFPA) standard, applicable specifications, drawings, designs, samples or descriptions, will be free from defects in materials and workmanship and will be fit for the particular purpose intended by the buyer.
1. Under this provision, the seller and/or manufacturer agree to repair or replace without cost during the warranty period, any part, feature or product found to be defective or unsuitable for the services intended.
 2. Under this provision, the seller and/or manufacturer agree to repair without cost for the life of the coat and pant garments (minimum of three years) all defects in materials and workmanship.

IV SERVICE REQUIREMENTS/CERTIFICATION: Clothing will be used by Fire Fighting personnel of the Milwaukee Fire Department for conventional, structural firefighting only. It shall be designed to protect against temperature extremes; steam, hot water, hot particles and other hazards encountered during fires and related emergencies. Each item shall be bar-coded by manufacturer or vendor identifying at minimum date of manufacture and serial number. Gear shall include sizes for both men and women.

Clothing must pass the requirements of NFPA 1971 (latest revision) but with enhanced performance in the following area:

- A. Thermal Protective Performance (Hereinafter TPP): The coat and pant ensembles shall exhibit a TPP rating of not less than 40 or in compliance with the latest version of NFPA 1971.
Total Heat Loss (Hereinafter THL): The coat and pant ensembles shall exhibit a THL rating of not less than 250.
- B. Certification: All bids submitted for the coats and pants described herein should be accompanied by a test certificate confirming that the coats and pants bid are in complete compliance with this specification. This test certificate shall be issued by the Underwriters Laboratory (UL) and be provided at no cost to the City. If not provided with the bid, but requested by the DOA, Business Operations Division, Procurement Services Section, the UL test certificate must be submitted within three (3) working days of receiving a request or the bid will be rejected.

V UNSUITABLE EQUIPMENT: Bids will not be considered for clothing or material which have previously failed to perform satisfactorily the functions described in the “Service Requirements” section of this specifications, or from contractors / vendors who have a history of performance problems with the City of Milwaukee or other cities.

VI DELIVERY: The successful bidder shall be required to deliver the Milwaukee Fire Department’s initial order of clothing no later than ninety (90) days after receipt of the sizes and/or measurements.

During the contract term, the successful bidder is required to carry a sufficient quantity of standard size coats, pants for sizing purposes to insure that delivery can either be made from stock or within a seven (7) calendar day time period. Non-standard size coats and pants shall be delivered in sixty (60) calendar days or less.

VII BRAND NAMES: For the purpose of this clause, references to “brand names” shall mean brand names and/or make or model number.

A. References: If articles have been identified in the specification by a “Brand Name” or by a “Brand Name or Equal” description, such reference is intended to be descriptive but not restrictive and is for the sole purpose of indicating to the prospective bidders a description of articles that will be satisfactory. Other items of equal quality will be considered.

B. A sample of the coat, pant, gloves, helmet, hood, and suspenders ensembles bid shall be provided under separate cover prior to the specified bid opening date and time. If no samples are provided, bid is subject to rejection. The fire fighting clothing samples (coat and pants to be size 44 Regular) are to be sent to:

DOA-Procurement Services
Bid 0000002091
200 East Wells Street-Room 601
Milwaukee, WI 53202

NOTE: The sample coat and pant ensembles provided with the bid by the successful bidder shall serve as the master sample for the quality and construction of the coat and pant ensembles to be supplied under the contract with the City and shall become the property of the Milwaukee Fire Department. Samples from all other bidders will be returned upon request.

VIII DETAILED SPECIFICATIONS: **(NOTE - Left / Right refers to the wearer's viewpoint.)**

A. COAT: 29" – 42" Length

- Outer shell: NFPA 1971 – latest edition compliant
- +/- 7.25 oz/sq. yd 40% PBI™ / 60% Kevlar™ rip stop weave with water resistant Teflon™ FPE alloy reinforced with a minimum 600 denier filament Kevlar™ cables, natural color PBI MATRIX
- Trim: 3" Lime Yellow triple trim Scotchlite, New York Trim Pattern
- Storm flap to be located on left side of opening
- Storm flap shall extend from left of opening, and be secured on right with continuous Velcro® of a minimum width of 2". Zipper closure under storm flap.
- One Velcro™ secured, protected pocket accessible with self-contained breathing apparatus (SCBA) donned. Either "Napoleon" style located in shell to left of zipper closure, accessed by opening only the storm flap, or patch style located in thermal liner.
- Radio pocket on left breast located below SCBA chest strap to not interfere with SCBA shoulder straps; 4" W x 7.5" H x 1 ½"; flap closure secured with 2"H x 3"W Velcro®. Flap must allow for radio antenna.
- Two external self fabric loops for microphone clip, positioned at collarbone, not to interfere with SCBA shoulder and chest straps
- Nomex III over-thumb wristlet on interior cuff of waterproof material which shall be part of shell, to be compliant with NFPA 1971.
- Reinforced shoulders with self-fabric or air-ashield
- Collar should be snug fitting and shall completely cover the neck and throat area when in the raised position. Raised height should be approximately 4", with a contoured overlap at the front of the coat. Collar shall have a notched out area in front to allow for no interference of the face piece. Collar overlap should be a Velcro™ closure and of such design so as not to interfere with SCBA facepiece or helmet yet still provide complete protection of neck opening.
- External self-fabric hanger loop approximately 2" long located behind and just below collar, not to interfere with Drag Rescue Device (DRD).
- Two 8" x 8" bellows pockets extending upward from hem. Pockets shall have drainage holes with solid grommets, and flap closures of Velcro® with reinforcement liner in pockets.
- Metal accessory ring located mid-chest on storm flap
- 42 stitch bar tacks at stress points
- Cuffs shall have air-ashield or comparable trim 1" inch wide
- Shoulders and elbows shall be reinforced with air-ashield or comparable
- DRD shall have two ends of a 1.5 inch wide Kevlar strap or a rolled rope style to be sewn together to make a continuous loop. The strap will be installed in the coat between the liner system and outer shell such that when properly installed will loop around each arm. The strap will be accessed through a portal between the shoulders on the upper back where it is secured in place by a Velcro strap. The access port will be covered by an outside flap with beveled corners designed to fit between the shoulder straps of an SCBA. The flap will have a compliant reflective patch sewn to the outside to clearly identify the feature as the DRD.

- Sample coat or coats submitted for bid must be a 35" in length.
- Labels inside the outer shell shall have a bar code.

Moisture Barrier / Thermal Liner:

- NFPA 1971 – latest edition compliant
- Moisture barrier to be bi-component PTFE (polytetrafluoroethylene) technology laminated to a NomexIII™ woven substrate (CROSSTECH or comparable)
- Thermal Liner to be 2-Layer E89 quilted to Nomex™ facecloth (2-LAYER E89 or comparable)
- In conjunction with above specified outer shell, shall have minimum Thermal Heat Loss (THL) of 250 and Thermal Protective Performance (TPP) of 40 or shall comply with NFPA 1971 (latest revision) whichever provides best combination of THL and TPP protection.
- Liner must be removable., it shall be secured to the outer shell with continuous Velcro® around collar; zipper(s) or snaps at front of coat; snaps at cuffs.
- -Labels inside the liner shall have a bar code.

B. PANTS: Traditional style, waist height

Outer shell:

- NFPA 1971 – latest edition compliant
- +/- 7.25 oz/sq. yd 40% PBI™ / 60% Kevlar™ rip stop weave with water resistant Teflon™ FPE alloy reinforced with 600 denier filament Kevlar™ cables, natural color (PBI MATRIX or comparable)
- 3" Lime Yellow triple trim Scotchlite cuff trim
- Fly closure to be continuous Velcro® (minimum 2" width) over with a metal hook and "D" ring closer.
- Pants to include a belt system in the waist with a self-locking thermoplastic buckle with a quick-release mechanism. Or comparable system. Belt to be made with Kevlar material.
- Arashield™ or comparable reinforced knees with knee pads
- Self-fabric reinforced crotch
- Reverse boot cut with 1 " inch leather or comparable reinforcement at cuffs
- 10"W x 10"H x 2" full bellows pocket on each thigh; flap closures with 8 sq. in. of Velcro®; drainage holes with grommets
- 42 stitch bar tacks at stress points
- Waist sizing adjustments (2)
- 100% cotton, 2" wide H-back suspenders with strap connections **not studs**. Suspender shall include reflective trim.

Moisture Barrier / Thermal Liner:

- NFPA 1971 – latest edition compliant
- Moisture barrier to be BI-component PTFE technology laminated to a Nomex III™ woven substrate (CROSSTECH or comparable)
- Thermal Liner to be 2-Layer E89 quilted to Nomex™ facecloth (2-LAYER E89 or comparable)

- In conjunction with above specified outer shell, shall have minimum Thermal Heat Loss (THL) of 250 and Thermal Protective Performance (TPP) of 40 or shall comply with NFPA 1971 (latest revision) whichever provides best combination of THL and TPP protection.
- Liner must be removable it shall be secured to the outer shell with zipper or continuous Velcro® around waist with covering flap; snaps at cuffs.

IX GLOVES

- Shall meet NFPA 1971 – latest edition compliant

OUTTER SHELL:

- Heavy weight, fire retardant, heat resistant, with abrasion resistant, made with either Elk or Goat leather on the back of the hand. With pig skin or supersoft cowhide on palm.

THERMAL LINER:

- 8 OZ. S.E.F. (SELF EXTINGUISHING FABRIC) modacrylic fleece laminated to gore RT7100 glove barrier fabric.

PROTECTIVE BARRIER:

- Gore (PTFE) RT7100 glove barrier fabric. This barrier is combined (laminated) to the thermal liner. The breathable barrier / thermal liner system is individually graded and produced in as many sizes as glove sizes. The barrier / thermal liner are sized proportional to human hand sizes.

WRISTLET:

- Nomex , Double ply, 4” minimum, Wristlet (2” minimum Gauntlet). Wristlet sewn to liner, and then sewn separately to the glove shell.

THREAD:

- Sewn with high burst Strength Kevlar (30/5) lock stitch, 8-10 stitches per inch.

LABEL:

- Label shall meet and or exceed the NFPA 1971 latest edition.

SIZES:

- Range from XS to XXXL
- Wristlet and Gauntlet styles to be available.

X HELMETS: Traditional American Fire Service Style helmet comprised of four major ribs and four minor ribs, short front brim and larger rear brim area. Must meet NFPA 1971 – latest edition standard for fire fighting helmets. (“American Classic®” with Thermax or comparable)

- Goggle Mounting/Retention System shall allow the goggles to be attached to the back brim or with side mounted hardware to allow goggle to be stored in the front or the back of the helmet. Goggles should have “quick release” mechanism to allow for ease of removal.

- Goggles shall be Paulson-style black silicon goggles with PPC interchangeable lens and adjustable silicon strap.
- Chin Strap shall be side-squeeze quick release with postman's clip
- Earflaps shall be PBI/FR flannel material, minimum 7" in length.
- Reflexite Trim shall be tetrahedron shaped and lime in color.
- Top Shield Mounting Bracket to accommodate standard MFD shields.
- Suspension System components, including Nomex sweatband shall be easily removable for cleaning. They shall also be individually replaceable (i.e. ratchet, sweatband, etc.)

XI. HOODS

- NFPA 1971 – latest edition compliant
- Face and Chest overlap style, non-vent
- Natural color (Life Liners P84: 40%P84 / 55% Lenzing / 5% Kevlar™ Hood or comparable).

XII SIZING: Successful bidder will be responsible for sizing individuals for whom the equipment is intended. In the sizing process the successful bidder **WILL USE THE EXACT SAME** gear that we will be buying, **NOT GEAR THAT IS USED AS A "FIT KIT"**. If equipment is adjustable (i.e. helmets), training in the proper adjustments must be provided to the individuals for whom the equipment is intended, through the DVD or Video (see XIV.)

XIII INVENTORY BUYOUT: In the event that the new contract for firefighting clothing is not renewed with the current contractor, the City shall have the right at the end of the contract term to purchase at the current contract price any balance of merchandise specifically purchased by the contractor for the Milwaukee Fire Department. The contractor shall, however, furnish the Milwaukee Fire Department (Deputy Chief Bureau of Instruction and Training) with on-hand inventory status reports six (6) months and three (3) months prior to contract termination. Said reports will be used to determine the Fire Department's needs for the balance of the contract term.

XIV Successful bidder will be responsible for producing a "care & maintenance" video or DVD demonstrating the how to care, donning & doffing of gear.